CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

ORDER NO.

WASTE DISCHARGE REQUIREMENTS FOR SACRAMENTO RENDERING COMPANIES RANCHO CORDOVA RENDERING PLANT SACRAMENTO COUNTY

The California Regional Water Quality Control Board, Central Valley Region (hereafter Regional Board), finds that:

- 1. Sacramento Rendering Companies (hereafter known as Discharger) submitted a Report of Waste Discharge (RWD) dated 5 March 2005 to obtain Waste Discharge Requirements for the discharge of animal rendering process wastewater. Additional technical information used to supplement the RWD was submitted on 21 April, 26 May, and 22 July 2005.
- 2. The Sacramento Rendering Companies facility is in Sections 24 and 25, T8N, R6E, and Section 30, T8N, R7E, MDB&M, as shown on Attachment A, which is attached hereto and made part of the Order by reference. The property, which is owned by the Discharger, is at 11350 Kiefer Boulevard in Rancho Cordova and comprises Assessor's Parcel Numbers 067-0090-005-0000, 067-0090-019-000, 067-0050-048-0000, 067-0090-021-0000, 067-0090-002-0000.
- 3. Order No. 5-00-244, adopted by the Regional Board on 27 October 2000, prescribes requirements for the discharge of animal rendering process wastewater to land to irrigate livestock pasture. The Discharger has applied for a revised Order to allow increased flows resulting from operational changes and new air emissions control equipment.

Existing Facility and Operations

- 4. The Discharger operates a rendering plant that processes livestock carcasses, meat and poultry processing by-products, and grease from restaurants and other food service businesses. The facility site plan is depicted on Attachment B, which is attached hereto and made part of the Order by reference.
- 5. Approximately 750,000 pounds per day of carcasses and meat processing by-products are rendered. The rendering process typically operates 24 hours per day, seven days per week. The material is first crushed and then cooked to evaporate moisture. The dehydrated material is then screened and passed through a screw press to separate fat from the protein solids. The protein solids are ground to create protein meal product, and the fat is centrifuged and then pumped to outdoor storage tanks.
- 6. Tanker trucks deliver grease from restaurants and other food service businesses. Water is separated from the grease and the grease is then processed in the same cookers used to render meat byproducts.
- 7. Vapor from the cookers flows through an air-cooled condenser. Air leaving the condenser is treated to remove odor-producing compounds using a Venturi scrubber and a thermal oxidizer.

- 8. Scrubbers 1 through 4 treat air exhausted from the plant building to reduce objectionable odors.
- 9. Chlorine gas (approximately 600 pounds per month), hydrochloric acid, and sodium hypochlorite (approximately 750 pounds per month) are added to the air scrubber water supply to oxidize organic compounds. Approximately 2,500 pounds of sodium chloride is used each month to regenerate the ion exchange system that produces softened water for the boiler.
- 10. Wastewater generated by the rendering plant consists of moisture from animal by-products, water separated from grease, condensate from the cookers, contact water from the Venturi scrubber and Scrubbers 1 through 4, plant sanitation wastewater, water softener reject, boiler blowdown, and storm water runoff from some of the roof drains and the exterior part of the processing plant's front loading area.
- 11. Wastewater flows are variable, ranging from 70,000 to over 100,000 gallons per day (gpd). Estimated current flows from each waste stream are tabulated below.

Wastewater Source	Estimated Average Daily Flow (gpd)
Cooker condensate	50,000
Venturi scrubber contact water	10,080
Other scrubber contact water	17,280
Water separated from grease	15,000
Sanitation water	6,440
Water softener reject	800
Boiler blowdown	400
Storm water runoff	200
Total	100,200

12. The RWD's characterization of the waste streams based on sampling performed in 2004 is summarized below.

Concentration Range (mg/L) TKN 4 TDS 2 BOD ¹ FDS^3 Waste Stream Ammonia-N Cooker condensate 4,500 to 9,300 140 to 570 12 to 340 360 to 1,300 390 to 1,400 44 to 76 Venturi scrubber 470 to 720 180 to 260 230 to 320 190 to 810 14 to 84 Other scrubbers 200 to 460 31 to 210 Water from grease 460 to 3,500 38 to 130 Sanitation water ⁵ 2,100 7,362 631 Water softener reject ⁵ 11 12,500 2

Concentration	Range	(mg/L)
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Waste Stream	BOD ¹	TDS ²	FDS ³	Ammonia-N	TKN ⁴
Boiler blowdown		1,200 to 2,000		<1	<2
Applicable Water Quality Limit ⁶	NA	450	NA	1.5	NA

-- Not analyzed.

NA Not Applicable.

- Biochemical oxygen demand.
- ² Total dissolved solids.
- ³ Fixed (or inorganic) dissolved solids.
- ⁴ Total Kjeldahl nitrogen.
- These waste streams were not analyzed separately. Average concentrations were estimated based on mass balance.
- Water quality limit to apply narrative water quality objectives specified in the Basin Plan for protection of the beneficial uses of groundwater.

Based on these data and flow rates, approximately 80 percent of the BOD mass and approximately 76 percent of the TKN mass results from cooker condensate. Approximately 45 percent of the fixed dissolved solids results from sanitation and 33 percent comes from water softener reject.

13. Water for processing and pasture irrigation is supplied by three-on-site production wells. Wells 1 and 2 are irrigation supply wells, and Well 3 supplies approximately 60,000 gpd of fresh water for the rendering process.

Wastewater Treatment and Storage

14. Process wastewater and incidental storm water are routed to a sump known as the hot well. Partial solids settling takes place, and floating fat and grease are skimmed from the hot well. The wastewater is pumped from the hot well to a pre-treatment system consisting of an equalization tank, a pre-skimmer unit, and a dissolved air flotation (DAF) unit, as shown on Attachment C, which is attached hereto and made part of the Order by reference. Polymer is added to the DAF unit to promote solids settling. Approximately 50,000 pounds per day of solids and grease are removed by the DAF unit and rerouted to the cookers. The DAF effluent is discharged to the facility's wastewater pond system. DAF effluent monitoring data for 2004 are summarized below.

	DAF Effluent Concentration Range	Applicable Water Quality Limit
Constituent	(mg/L)	$(mg/L)^2$
BOD	2,300 to 11,000	NA
Total organic carbon ¹	1,500 to 2,300	NA
TDS	960 to 3,100	450
FDS ¹	40 to 370	NA

Constituent	DAF Effluent Concentration Range (mg/L)	Applicable Water Quality Limit (mg/L) ²
Ammonia-N	230 to 990	1.5
TKN	430 to 1,200	NA
Nitrate-N	<1	10
Chloride ¹	220 to 260	106
Sodium ¹	170 to 250	69

Based on three sampling events in November 2004.

- 15. The wastewater pond system consists of a pumping station, flow meter, eight small lagoons (known as the finger lagoons), two winter storage ponds and two mixing lagoons. The wastewater is used to irrigate approximately 74.8 acres of pastureland owned by the Discharger during the dry season only, as shown on Attachment B.
- 16. The finger lagoons are operated in series as facultative lagoons to provide both aerobic and anaerobic treatment. They are approximately four feet deep with a total of 1.1 acre-feet of capacity at two feet of freeboard
- 17. Based on monitoring data obtained in 2004, the finger lagoons' treatment performance is variable. BOD removal varied from –330 to 60 percent; ammonia nitrogen removal varied from –244 to 65 percent; and TKN removal varied from 0 to 65 percent. The negative removal values may result from periodic overloading, climactic conditions, or a combination of the two. The RWD states that improved maintenance, such as more frequent pond cleaning, could increase the BOD removal rate to as much as 50 percent.
- 18. During the rainy season (16 October through 14 April), effluent from the finger lagoons is pumped to Winter Storage Pond 1 (shown on Attachment C), which was constructed in 1956 and enlarged in 2004. As wastewater accumulates in Winter Storage Pond 1, it overflows into a gravity pipeline that conveys it to Winter Storage Pond 2, which was constructed in 2004 and expanded during the summer of 2005. The storage capacity of these ponds is tabulated below.

Parameter	Winter Storage Pond 1	Winter Storage Pond 2 ¹
Surface area (acres)	2.9	11
Depth at two feet of freeboard (feet)	19	7
Volume at two feet of freeboard		
(acre-feet)	40	72
(MG)	13	23.4

Volume estimated (to be verified by survey in fall 2005).

Water quality limit to apply narrative water quality objectives specified in the Basin Plan for protection of the beneficial uses of groundwater.

- 19. The former Back Mixing Pond was reconstructed in 2004 to provide separate storage for fire suppression water and irrigation tailwater/field runoff. The current Back Mixing Pond covers approximately three acres. It has a design maximum depth of 8 feet and 13 acre-feet of storage capacity. The fire suppression water pond previously contained a mixture of wastewater, tailwater, and field runoff, but now stores only fresh water supplied from one of the on-site production wells.
- 20. The Front Mixing Pond covers approximately 0.6 acres. It has a design depth of 11 feet, and a storage capacity of four acre-feet.

Land Application of Wastewater

- 21. During the dry season (15 April through 15 October each year), wastewater is conveyed from the Winter Storage Ponds and the finger lagoons to the Back Mixing Pond for pasture irrigation, as indicated on Attachment D, which is attached hereto and made part of the Order by reference. The Back Mixing Pond also receives tailwater from the irrigated pasture. The Back Mixing Pond can be used to pump wastewater to both the back (southern) pasture areas and the Front Mixing Pond. The Front Mixing Pond is used to pump wastewater to irrigate the front (northern) pasture areas. Fresh water from the irrigation supply wells can be pumped to the mixing ponds or used to directly irrigate the pastureland. The Winter Storage Ponds are typically empty by August each year.
- 22. With the exception of the DAF unit effluent meter described above, the Discharger uses pump curves, pressure gauges, and pump run time logs to estimate flows between the various ponds and to the land application areas.
- 23. The front pasture consists of Fields 1 and 2, with a total area of approximately 12.8 acres. The back pasture consists of Fields 3 through 5, with a total area of approximately 62 acres. The former Field 6 is no longer irrigated with wastewater, and the former Field 7 was used to construct the new Winter Storage Pond 2. Field 8 is a small separate horse pasture of approximately one acre, which is no longer irrigated with wastewater.
- 24. Overland irrigation methods are used. During the dry season, approximately 2.7 to 4.5 million gallons per month (approximately 2.0 inches per month) of wastewater from the mixing ponds are applied to the pasture, and supplemental fresh water applications range from 2 to 23 million gallons per month (approximately 5.2 inches per month). During the 2004 dry season, approximately 27 percent of the total irrigation water used was wastewater.
- 25. Daily BOD loading rates to the irrigated pasture in April 2004 typically ranged from 9 to 167 pounds per acre per day, with an average of 60 pounds per acre per day. The mean cycle average BOD loading was 30 pounds per acre per day. The RWD states that these loading rates are representative of the entire irrigation season because higher irrigation demand in later months is met with fresh water from the irrigation supply wells, not wastewater.
- 26. Based on the estimated TKN output from the DAF unit in 2004 (640 pounds per day), the average nitrogen loading rate to the irrigated pasture may have been as high as 2,400 pounds per acre per year. However, most of the nitrogen in the DAF effluent and the finger lagoons is typically in the

form of ammonia, and it is not clear how much of the ammonia volatilizes in the Winter Storage Ponds and/or as a consequence of land application. However, based on the available data, it is likely that nitrogen has historically been applied at rates far in excess of agronomic rates for the mixture of pasture grass and alfalfa that is grown in the pasture.

Storm Water Management Issues

- 27. Storm water from outdoor areas of the plant and some of the building roof drains is collected into a subsurface storm drain system that discharges to Frye Creek, an intermittent tributary of Laguna Creek. Storm water runoff from Fields 1 and 2 is conveyed by the same drainage system to an outfall at Frye Creek (shown as Outfall OpA on Attachment B). Tailwater from Fields 1 and 2 is conveyed to the front mixing pond for recycling. The back pasture areas drain both tailwater and storm water to the Back Mixing Pond, which is used to recycle tailwater and capture the first flush of storm water from those fields.
- 28. Prior to 2004, the Front and Back Mixing Ponds captured all storm water flows from the pasture areas and were allowed to overflow into Frye Creek. However, because the Discharger was ostensibly diluting wastewater with fresh water at a ratio of 20 to 1 for irrigation and cleaning out the Back Mixing Pond prior to the rainy season each year, such releases were not specifically prohibited by Order No. 5-00-244.
- 29. On 14 January 2004, Regional Board staff inspected the facility. The Discharger was in the process of constructing a new fire suppression pumping system and had reportedly drained storm water from the Back Mixing Pond into Frye Creek to facilitate construction. No violations were observed.
- 30. On 20 January 2004, the Sacramento County Department of Water Resources investigated a complaint from a neighboring landowner and found dark-colored, odorous water in Frye Creek that was traced back to the Discharger's Back Mixing Pond outfall (Outfall BP on Attachment B). County staff suspected that the Discharger had released wastewater into the creek via the Back Mixing Pond and issued a Notice of Violation to the Discharger.
- 31. In response to the County's complaint investigation, Regional Board staff issued a Notice of Violation (NOV) to the Discharger on 10 February 2004. The NOV required that the Discharger submit a technical report documenting its investigation into the source of the discharge to Frye Creek.
- 32. The Discharger's initial response to the NOV was inadequate. Therefore, on 8 April 2004, the Executive Officer issued an order for technical reports pursuant to Section 13267 of the California Water Code. The order required that the Discharger submit an adequate response to the NOV as well as a wastewater, tailwater, and storm water management plan for the facility. The Discharger was also required to document the completion of improvements proposed in that plan by 15 October 2004.
- 33. The Discharger submitted a revised response to the NOV on 15 April 2004, and the wastewater, tailwater, and storm water management plan on 15 June 2004 in response to the order for technical

reports. Staff met with the Discharger on 22 June 2004 to discuss the plan and expressed concern about using wastewater storage ponds to capture and subsequently release storm water from the pasture to surface water. The Discharger subsequently submitted a conceptual improvement plan on 30 August 2004. The plan was approved and the Discharger completed several improvements proposed in the plan in fall 2004:

- a. The Back Mixing Pond was reconstructed to provide a separate fire suppression supply pond for fresh water;
- b. Modifications were made to the storm water drainage system to allow storm water to bypass the Back Mixing Pond after the first flush of storm water runoff from the back pasture areas is captured and retained.
- c. The original Winter Storage Pond (now Winter Storage Pond 1) was deepened to provide more storage capacity; and
- d. A new Winter Storage Pond (Winter Storage Pond 2) was constructed adjacent to the Back Mixing Pond.

The system was designed so that storm water generated in the back pasture areas after the first flush could bypass all storage ponds and discharge directly to Frye Creek. First flush storm water from the front pasture areas was to be collected in the Front Mixing Lagoon and pumped to Winter Storage Pond 1. Subsequent runoff was to be allowed to overflow from the Front Mixing Lagoon into to the storm drain system that serves the rendering plant areas and discharges into Frye Creek. In 2004, additional modifications were made to convey runoff from Fields 1 and 2 directly to the storm drain system that discharges at Outfall OpA.

- 34. On 12 January 2005, a United States Environmental Protection Agency (USEPA) contractor inspected storm water discharges from the facility. Among other violations, the inspector observed stained and turbid water discharging from the plant area storm drain outfall into Frye Creek. Staff issued an NOV that required the Discharger to address all of the violations and submit an updated Storm Water Pollution Prevention Plan.
- 35. On 28 February 2005, Regional Board staff inspected the land application fields and ponds to assess whether runoff from the fields might be the source of the discolored runoff observed by the USEPA contractor. Dark-colored water was observed ponding at the base of some of the fields. Likewise, stained water was observed discharging from the fields and into Frye Creek. In addition, Fields 5 and 6 did not have adequate runoff controls to prevent tailwater or storm water from leaving the site through other drainage courses. Staff requested that the Discharger perform storm water sampling as soon as possible prior to the end of the rainy season to assess the chemical character of storm water at several points within the field drainage system and Frye Creek.
- 36. On 22 April 2005, the Discharger submitted a storm water monitoring report as requested. A single sample of runoff or ponded storm water was obtained from each sampling location on 4 March 2005 during a light rain that reportedly generated low to medium runoff. Selected storm water monitoring results are tabulated below.

_			Analytic	al Result	(mg/L)		
Monitoring Location	<u>TDS</u>	BOD	Ammonia-N	<u>TKN</u>	Nitrate-N	<u>Sodium</u>	Chloride
Background 1	62	16	0.3	2.4	<2	<1	1.6
Fields							
Fields 1 and 2	260	25	15	24	2.4	27	30
Between Fields 2/3 ²	260	14	0.73	6.4	<2	23	14
Field 3	340	53	16	24	18	38	38
Field 4	180	17	0.5	4.4	<2	10	1.8
Field 5	150	16	0.76	4.5	<2	10	2.5
Field 6	130	51	0.65	3	<2	14	2.1
Outfall OpA ³	160	16	0.55	3	<2	19	5.9
Outfall BP 4	140	16	0.78	4.2	<2	9.5	2.3
Frye Creek downgradient	110	14	0.51	2.8	<2	6.1	3.5

- Sample was obtained from ponded water in a neighboring pasture not irrigated with process wastewater.
- Sample was obtained from ponded water in a small area between the two fields.
- Outfall OpA discharges storm water from the processing plant area and Fields 1 and 2.
- Outfall BP discharges storm water from Fields 3 through 6.
- 37. With the exception of sodium and TDS, these data indicate that runoff from Fields 4, 5, and 6 is not significantly different from runoff from the off-site pasture. Runoff from Fields 1, 2, and 3 contained elevated concentrations of all of the constituents listed above. Samples obtained from both of the facility storm drain outfalls showed constituent concentrations similar to those from Fields 4, 5, and 6, as did the creek sample downstream of the facility (i.e., TDS and sodium concentrations were greater than apparent background).
- 38. The Discharger's report concluded that the source of wastewater constituents might be associated with decaying vegetation, livestock waste, and contact with tailwater ditches that drain Fields 1 and 2. The report proposed specific improvements to reduce storm water ponding and improve storm water conveyance system reliability for Fields 1, 2, 4, 5, and 6, and construction of additional berms around Fields 5 and 6 to prevent uncontrolled runoff to other drainage courses. The Discharger subsequently decided to remove Field 6 from service and has completed all other the proposed improvements.
- 39. It should be noted that the storm water monitoring performed in March 2005 was not performed in accordance with standard storm water sampling protocols during a light rain, which necessitated sampling from ponded water in some cases. Additionally, the sampling event was approximately four months after the last wastewater irrigation event, and approximately 17 inches of precipitation occurred in the Rancho Cordova area between 1 November 2004 and 3 March 2005. Therefore, the

storm water samples may not be representative of typical storm water discharges to Frye Creek. Further monitoring is needed to determine whether the Discharger's current field storm water retention program is adequate to protect surface water quality during the entire rainy season. Additional improvements may be needed to improve storm water quality and/or provide additional storm water detention.

Proposed Changes in the Discharge

- 40. The Discharger plans several operational changes that will influence wastewater generation rates as follows:
 - a. The fresh water flow rate to the air scrubbers will be increased to improve odor control performance;
 - b. The frequency of plant sanitation will be increased to reduce odors;
 - c. The volume of grease processed will increase to accommodate market demand for the service;

Estimated Average Daily Flow (and)

- d. The cooker condensate flow will increase; and
- e. Water softener regeneration brine will be segregated and disposed of off-site.

Projected future average daily flows are summarized below.

	Estillated Averag	ge Dany Flow (gpu)
Wastewater Source	Current	Future
Cooker condensate	50,000	55,000
Venturi scrubber contact water and		
other scrubber contact water	27,360	54,720
Water separated from grease	15,000	22,500
Sanitation water	6,440	14,880
Water softener reject	800	0
Boiler blowdown	400	400
Storm water runoff	200	2,300
Total	100,200	150,000

41. The BOD and TKN mass loading rates to the DAF unit are expected to increase by approximately 12 and 10 percent, respectively, though effluent concentrations are expected to decrease due to the additional fresh water usage. The fixed dissolved solids mass loading is expected to decrease by approximately 21 percent due to segregation of the water softener reject from the overall wastewater stream.

- 42. The RWD states that both the DAF unit and the finger lagoons have sufficient unused treatment capacity to accommodate the increased flows provided that the proposed finger lagoon maintenance program is fully implemented.
- 43. Based on the predicted wastewater flow rate, character, and pasture currently available for wastewater irrigation, BOD loading rates to the pasture are expected to increase to an average 67 pounds per acre per day as a daily maximum and 30 pounds per acre per day as a cycle average.
- 44. Assuming no ammonia volatilization occurs after the DAF unit, total nitrogen loading rates will be approximately 2,700 pounds per acre per year. Although conservatively estimated, the apparent nitrogen loading rate is significantly higher than the agronomic rate for the crop. Based on the low concentrations of nitrate in groundwater, the RWD suggests that site conditions and operational practices promote denitrification that may decrease plant available nitrogen by up to 70 percent. However, because groundwater is relatively deep and there is only one recently installed well that monitors groundwater beneath the pasture, it is premature to conclude that such is the case. The Discharger owns additional land contiguous with the existing land application areas that could be brought into service as wastewater irrigation areas, and has the capability to modify the treatment system to improve nitrogen removal. Therefore, it is appropriate to require that the Discharger:
 - a. Analyze soil samples obtained during monitoring well installation;
 - b. Monitor waste constituent transformation and movement beneath the land application areas;
 - c. Complete a nitrogen assimilation study to determine whether nitrogen is migrating beneath the pasture areas; and
 - d. Develop a nitrogen mitigation plan as needed to protect groundwater quality.
- 45. The water balance provided as an addendum to the RWD indicates that the facility currently has adequate wastewater and storm water storage capacity to accommodate an average daily flow of 150,000 gallons.

Site-Specific Conditions

- 46. The rendering plant area is relatively level, and the irrigated pasture areas are gently sloped at an elevation of approximately 145 feet above mean sea level (MSL). Frye Creek originates immediately west of the back pasture area and trends northeast to southwest along the western rendering facility boundary.
- 47. Subsurface soils at the site are interbedded layers and lenses of clay, silt, sand, gravel, and mixtures thereof. The permeability of these soils varies from low to high.
- 48. The reference evapotranspiration rate (ET_0) for the area is approximately 57 inches.

Groundwater Considerations

- 49. Groundwater is generally encountered at approximately 5 feet MSL (about 140 feet below the ground surface). There are currently five groundwater monitoring wells at the facility, as shown on Attachment B. Monitoring wells MW-1 through MW-4 were installed in 2003, and MW-5 and MW-6 were installed in summer 2005. Based on recent groundwater monitoring data, the groundwater gradient is generally towards the southwest, but data from the new wells suggests that there may be some on-site variations that were not previously known, which may be attributable to recent increases in groundwater usage in the area. Monitoring well MW-3 is typically upgradient of the wastewater ponds and cross-gradient of the pasture areas. MW-4 is downgradient of Winter Storage Pond 1, MW-2 is downgradient of the finger lagoons, and MW-6 is within the back pasture area (Field 3). Monitoring Well MW-1 was downgradient of the former Back Mixing Lagoon; it was abandoned and replaced with MW-5 in summer 2005 because it was no longer downgradient of the reconstructed Back Mixing Pond.
- 50. Groundwater monitoring data obtained since November 2003 (six quarterly sampling events) are summarized below. (Analytical data from the first sampling of wells MW-5 and MW-6 are pending).

	Range of Results (mg/L)			
Constituent	MW-3 (upgradient)	MW-1 (downgradient)	MW-2 (downgradient)	MW-4 (downgradient)
TDS	170 to 190	420 to 660	180 to 220	470 to 550
Ammonia N	< 0.10	< 0.10	< 0.10	< 0.10
Nitrate N	1.5 to 1.9	5.0 to 5.8	1.8 to 2.6	1.9 to 3.2
Chloride	7.1 to 8.2	170 to 210	26 to 30	120 to 130
Sodium	21 to 25	30 to 39	20 to 24	30 to 39
Magnesium	5.7 to 6.7	26 to 34	10 to 13	30 to 37
Iron, dissolved	< 0.1	Typically < 0.1	< 0.1	< 0.1
Manganese, dissolved	< 0.01	Typically < 0.01	< 0.01	< 0.01

These data indicate that background groundwater is generally of high quality, and that Winter Storage Pond 1, the finger lagoons, and the former Back Mixing Pond may have caused increases in concentrations of TDS, sodium, chloride, and magnesium. The increases in TDS and chloride may constitute pollution. It is appropriate to require continued monitoring and a statistical analysis of groundwater quality to make a formal determination regarding groundwater degradation. If groundwater quality has been degraded, the Discharger must make improvements to prevent further degradation and will be required to cleanup and abate the degradation and/or pollution.

51. MW-2 is relatively close to MW-4 and is also downgradient of Winter Storage Pond 1. However, with the exception of chloride and magnesium, monitoring results for this well are similar to those

for the background well. This phenomenon has not been explained.

52. The existing and proposed groundwater monitoring network is adequate to assess whether groundwater degradation has occurred from the use of the older wastewater treatment and storage ponds. However, based on past and projected future nitrogen and salt loading rates for the irrigated pasture, additional monitoring wells are needed to monitor groundwater beneath the pasture areas to define the extent of degradation and/or pollution, if degradation and/or pollution is confirmed. Additional wells are needed to better define localized gradient conditions, and to assess groundwater quality beneath and downgradient of the land application area and new Winter Storage Pond 2.

Other Considerations For High Strength Organic Waste

- 53. Excessive application of high strength organic wastewater to land application areas can create objectionable odors, soil conditions that are harmful to crops, and degradation of underlying groundwater by overloading the shallow soil profile and causing waste constituents (organic carbon, nitrate, other salts, and metals) to percolate below the root zone.
- 54. According to *Pollution Abatement in the Fruit and Vegetable Industry*, published by the United States Environmental Protection Agency (US EPA Publication No. 625/3-77-0007) (hereafter *Pollution Abatement*), in applying food-processing wastewater to land for biological treatment, the loading of BOD₅ should not exceed 100 lbs/acre/day (as a cycle average) to prevent nuisance odors. Although the Discharger's waste may not technically be "food processing waste", the discharge is chemically similar to typical food processing waste discharges and is similar in terms of waste management/disposal practices.
- 55. Acidic and/or reducing soil conditions can be detrimental to land treatment system function, and may also cause groundwater degradation. If the buffering capacity of the soil is exceeded and soil pH decreases below 5 or the soil becomes reducing, naturally occurring metals (including iron and manganese) may dissolve and degrade underlying groundwater. *Pollution Abatement* recommends that water applied to crops have a pH within 6.4 to 8.4 to protect crops.
- 56. Pursuant to California Water Code Section 13263(g), discharge is a privilege, not a right, and issuance of this Order does not create a vested right to continue the discharge. Failure to provide best practicable treatment and control; preclude conditions that threaten pollution, degradation, or nuisance; and protect groundwater quality will be sufficient reason to enforce this Order, modify it, or revoke it and prohibit further discharge.

Basin Plan and Beneficial Uses

57. The Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, Fourth Edition revised September 2004, (hereafter Basin Plan) designates beneficial uses, establishes water quality objectives, contains implementation plans and policies for protecting waters of the basin, and incorporates by reference plans and policies adopted by the State Water Resources Control

Board (State Board). Pursuant to Section 13263(a) of the California Water Code, waste discharge requirements must implement the Basin Plan.

- 58. Surface water drainage is to Frye Creek, which is tributary to Laguna Creek and the Sacramento River within the legal boundaries of the Sacramento-San Joaquin River Delta. The Basin Plan designates the beneficial uses of the Sacramento-San Joaquin River Delta as municipal and domestic supply; agricultural supply; industrial supply; water contact recreation; non-contact water recreation; warm freshwater habitat; cold freshwater habitat; migration of aquatic organisms; spawning, reproduction, and/or early development; wildlife habitat, and navigation.
- 59. The beneficial uses of underlying groundwater are municipal and domestic water supply, agricultural supply, industrial service supply, and industrial process supply.
- 60. State Board Resolution No. 68-16 prohibits degradation of groundwater quality unless it has been shown that:
 - a. The degradation is consistent with the maximum benefit to the people of the State
 - b. The degradation will not unreasonably affect present and anticipated future beneficial uses;
 - c. The degradation does not cause exceedance of one or more water quality objectives; and
 - d. The discharger employs best practicable treatment and control to minimize degradation.

The Discharger has not provided the required demonstration pursuant to State Board Resolution No. 68-16 to be allowed to cause groundwater degradation, and therefore none is authorized.

Waste Character and Waste Management Unit Classification

- 61. Water Code Section 13173 defines "designated waste" to include "[n]on hazardous waste that consists of, or contains, pollutants that, under ambient environmental conditions at a waste management unit, could be released in concentrations that exceed applicable water quality objectives or that could reasonably be expected to affect beneficial uses of waters of the state as contained in the appropriate state water quality control plan."
- 62. Based on the waste characterization data summarized in Finding Nos. 12 and 14, several of the individual waste streams and the combined waste stream discharged from the DAF unit to the finger lagoons and Winter Storage Ponds are designated waste due to concentrations of dissolved solids, ammonia, sodium, and/or chloride that exceed the applicable water quality limits. The Discharger plans to segregate the highly saline water softener reject and other high-salinity waste streams for treatment, recycling through the cookers, or off-site disposal. Until such changes are fully implemented, the discharge of designated waste will continue.
- 63. The Consolidated Regulations for Treatment, Storage, Processing, or Disposal of Solid Waste, as set forth in Title 27, California Code of Regulations (hereafter Title 27), Section 20240 states that waste management units shall be classified according to their ability to contain wastes, and that

such classification shall consider the site-specific circumstances relating to the unit's ability to protect water quality.

- 64. The Discharger's waste management system is subject to classification under Section 20240 at each point of potential release of waste constituents, including any structure where the waste is contained for conveyance, treatment, storage, or disposal. This includes floor drains, sumps, and any storage unit such as a tank or pond. The structure that defines each point of potential release must either be constructed to comply with Title 27 or be exempted from it.
- 65. Title 27 Section 20090(i) exempts fully enclosed units of limited areal extent and of reliable structural integrity (e.g., aboveground tanks, reinforced concrete sumps, and stainless steel sumps). The wastewater sumps at the facility are constructed of reinforced concrete. The facility's aboveground tanks used to contain wastewater are either steel or plastic tanks, and are designed and manufactured for that purpose. The indoor process equipment, including the water softener, boiler, cookers, and scrubbers are housed in a roofed building with a reinforced concrete pad. All of these features are of limited areal extent and provide structural integrity that qualifies them for exemption from the prescriptive and performance standards of Title 27. Containment of designated waste in the fully enclosed units identified above is authorized under this Order provided that the units are operated and maintained to provide full and continuous containment for all designated waste.
- 66. The unlined finger lagoons and Winter Storage Ponds are used to treat and store liquid designated waste. However, pursuant to Section 20210 of Title 27, such waste can only be discharged to a Class I or Class II surface impoundment equipped with engineered lining and leachate collection and recovery systems. Therefore, continued discharge to the finger lagoons and Winter Storage Ponds can only be allowed if a) the wastewater is first treated to reduce waste constituent concentrations to the applicable water quality limits or whatever level is required to ensure compliance with Resolution No. 68-16, or b) they are reconstructed to comply with the Title 27 requirements for Class II surface impoundments.
- 67. It is reasonable to allow the Discharger time to either comply with Title 27 or alter the character and management of the wastewater so that the finger lagoons and Winter Storage Ponds are not subject to regulation under Title 27. Continued discharge in the interim will not alter the responsibility of the Discharger to assess and, if appropriate, clean up the impacts that have already occurred.
- 68. Section 20210 of Title 27 does not preclude land application of decomposable designated waste for treatment and/or beneficial reuse. Given the depth to groundwater, the availability of additional land, and the availability of low-salinity supplemental irrigation water for dilution, it should be possible to use the rendering plant wastewater for crop irrigation without causing groundwater degradation. Total dissolved solids (TDS) includes both volatile dissolved solids (VDS) and fixed dissolved solids (FDS). The proportion of VDS to FDS in wastewater varies with the source, but it appears that up to 40% of the TDS in DAF unit effluent is in the volatile form. The volatile dissolved solids are subject to breakdown by soil microorganisms and, in a well-managed land application system, should not migrate to groundwater. Likewise, nitrogen undergoes microbial transformation in the soil column, is taken up by plants, and is volatilized into the atmosphere. Land application without groundwater degradation depends on appropriate wastewater

management. Accordingly, groundwater monitoring is appropriate to detect whether the irrigated pasture is managed such that groundwater degradation does not occur.

- 69. The discharge of wastewater to irrigate the Discharger's pasture is therefore exempt from the requirements of Title 27. The exemption, pursuant to Section 20090(b), is contingent on the following:
 - a. The Regional Board is issuing waste discharge requirements,
 - b. The discharge complies with the Basin Plan, and
 - c. The wastewater does not need to be managed according to Title 22 CCR, Division 4.5, and Chapter 11, as a hazardous waste.
- 70. Section 20435 of Title 27 sets forth specific requirements for unsaturated (vadose) zone monitoring for land treatment units. Although the Discharger's irrigated pasture is not classified as a land treatment unit, it is appropriate to require vadose zone monitoring and to use the requirements of Section 20435 to determine the adequacy of the monitoring system and appropriate interpretation of the monitoring results.
- 71. State regulations that prescribe procedures for detecting and characterizing the impact of waste constituents from waste management units on groundwater are found in Title 27. Although the Discharger's facility and discharge may be modified so that all waste management units are exempt from Title 27, the data analysis methods of Title 27 are appropriate for determining whether the discharge complies with the groundwater limitations of this Order.
- 72. Based on groundwater monitoring results submitted to date, it appears that the discharge has degraded groundwater quality with respect to salinity constituents. Because concentrations of some constituents in groundwater downgradient of the wastewater ponds exceed the limits used to apply narrative water quality objectives for groundwater, the degree of degradation may be sufficient to constitute pollution. If statistical analysis demonstrates that degradation has occurred, it is appropriate to require that the Discharger either implement treatment technology and source control measures to improve the quality of the waste to preclude the discharge from being a continuing source of degradation or provide full containment pursuant to Title 27.
- 73. In order to ensure compliance with applicable regulations and protect groundwater quality, it is appropriate to:
 - a. Prohibit discharge of designated waste to unlined ponds and non-exempt structures;
 - b. Establish Discharge Specifications for land application to prevent groundwater degradation;
 - c. Establish a schedule for appropriate technical studies and operational changes to ensure that land application of wastewater is performed at agronomic rates for nutrients;
 - d. Establish groundwater limitations;
 - e. Require groundwater monitoring for all ponds and land application areas;
 - f. Require vadose zone monitoring for all land application areas; and

- g. Require further assessment of groundwater degradation.
- 74. Because the Discharger cannot immediately cease the discharge of designated waste in violation of this Order, and because groundwater monitoring shows that the Discharger cannot (or may not be able to) comply with the Groundwater Limitations of this Order, it is appropriate to adopt a companion Cease and Desist Order that sets forth a scope and schedule for work that will bring the Discharger into compliance within a reasonable period.

Other Regulatory Considerations

- 75. Federal regulations for storm water discharges promulgated by the U.S. Environmental Protection Agency (40 CFR Parts 122, 123, and 124) require specific categories of facilities which discharge storm water to obtain NPDES permits. The Discharger has obtained coverage for its processing facility under the State Board's Water Quality Order No. 97-03-DWQ to comply with those regulations. However, that coverage applies only to the industrial processing facility. Discharges of storm water from pasture irrigated with wastewater are regulated under this Order. Based on limited late-season storm water monitoring in 2005, the Discharger may need to implement further operational and/or structural improvements to ensure that waste constituents are not discharged with storm water runoff from the irrigated pasture.
- 76. Section 13267(b) of California Water Code provides that: "In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of discharging, or who proposes to discharge within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of discharging, or who proposes to discharge waste outside of its region that could affect the quality of the waters of the state within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the board requires. The burden, including costs of these reports, shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports."

The monitoring and reporting program required by this Order and the attached Monitoring and Reporting Program No. __ are necessary to assure compliance with these waste discharge requirements. The Discharger operates the facility that discharges the waste subject to this Order.

- 77. The rendering plant and wastewater system have been in operation since 1965, and their operation is therefore exempt from the provisions of the California Environmental Quality (CEQA). On 28 January 2005, the Sacramento County Department of Environmental Review and Assessment issued a mitigated Negative Declaration for the construction of Winter Storage Pond 2. The Negative Declaration requires that the Discharger control potential erosion and siltation associated with earth-moving activities and comply with a Mitigation Monitoring Program.
- 78. The action to adopt revised waste discharge requirements for the facility is exempt from the provisions of the California Environmental Quality (CEQA), in accordance with Title 14 CCR, Section 15301.

79. This Order is intended as interim waste discharge requirements to allow the Discharger to continue operations while obtaining and analyzing additional information and implementing facility improvements sufficient to protect the beneficial uses of groundwater and comply with applicable regulations, plans, and policies.

Public Notice

- 80. All of the above and the supplemental information and details in the attached Information Sheet, which is incorporated by reference herein, were considered in establishing the following conditions of discharge.
- 81. The Discharger and interested agencies and persons have been notified of the intent to prescribe waste discharge requirements for this discharge, and they have been provided an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
- 82. All comments pertaining to the discharge were heard and considered in a public meeting.

IT IS HEREBY ORDERED that, pursuant to Sections 13263 and 13267 of the California Water Code, Order No. 5-00-244 is rescinded and Sacramento Rendering Companies, its agents, successors, and assigns, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

Note:

- 1. Other prohibitions, conditions, definitions, and some methods of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated 1 March 1991.
- 2. Additional compliance requirements are set forth in Cease and Desist Order No. . .

A. Discharge Prohibitions:

- 1. Effective **30** August **2009**, discharge of designated waste to any wastewater structure or pond that is neither exempt from Title 27 nor constructed to comply with Title 27 is prohibited.
- 2. Land application of wastewater to areas other than those described in Finding Nos. 21 and 23 is prohibited unless new land application areas are approved in writing by the Executive Officer. Such areas shall be limited to land owned by the Discharger as described in Finding No. 2 and shown on Attachment A.
- 3. Land application of wastewater to any field that does not have a fully functional tailwater return and runoff control system is prohibited.
- 4. Bypassing the DAF unit, finger lagoons, or any other treatment system installed after adoption of this Order is prohibited.

- 5. Discharge of wastes to surface waters or surface water drainage courses is prohibited.
- 6. Discharge of irrigation tailwater from any of the designated land application areas to any off-site area or drainage course is prohibited.
- 7. Discharge of waste classified as hazardous, as defined in Sections 2521(a) of Title 23, CCR, Section 2510, et seq., (hereafter Chapter 15), or 'designated', as defined in Section 13173 of the California Water Code, is prohibited.

B. Discharge Specifications:

- 1. The monthly average effluent flow (as measured downstream of the DAF unit) shall not exceed 150,000 gpd.
- 2. Objectionable odors originating from the wastewater ponds and all land application areas shall not be perceivable beyond the Discharger's property limits.
- 3. As a means of discerning compliance with Discharge Specification No. 2, the dissolved oxygen content in the upper one foot of any pond shall not be less than 1.0 mg/l.
- 4. The Discharger shall operate all systems and equipment to maximize treatment of wastewater and optimize the quality of the discharge.
- 5. All land application areas shall be managed to prevent breeding of mosquitoes and other vectors. Specifically:
 - a. All wastewater applied to land must infiltrate completely or drain back to the mixing ponds as tailwater within 24 hours.
 - b. Low-pressure pipelines, unpressurized pipelines, and ditches that are accessible to mosquitoes shall not be used to store wastewater.
 - c. Tailwater ditches shall be maintained essentially free of emergent, marginal, and floating vegetation
- 6. All wastewater storage ponds shall also be managed to prevent breeding of mosquitoes. Specifically:
 - a. Erosion control measures shall be implemented to minimize small coves and irregularities around the perimeter of the water surface.
 - b. Weeds within and around the perimeter of the pond shall be minimized through control of water depth, harvesting, or herbicides.
 - c. Dead algae, vegetation, and debris shall not accumulate on the water surface.
- 7. All treatment, storage, and disposal facilities shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.

- 8. No waste constituent shall be released or discharged, or placed where it will be released or discharged, in a concentration or in a mass that causes violation of the Groundwater Limitations.
- 9. The facility shall have sufficient treatment, storage, and disposal capacity to accommodate allowable wastewater flow and design seasonal precipitation during the winter months. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns.
- 10. Freeboard in any pond shall never be less than two feet as measured from the water surface to the lowest point of overflow.
- 11. On or about **15 October** of each year, available pond storage capacity shall at least equal the volume necessary to comply with Discharge Specifications B.9 and B.10.
- 12. Neither the treatment nor the discharge of waste shall cause a condition of nuisance or pollution as defined by the California Water Code, Section 13050.

C. Interim Effluent Limitations

Wastewater discharged from the finger lagoons to the storage ponds or land application areas shall not exceed the following effluent limits, or such concentrations as the Discharger determines necessary to ensure compliance with the Groundwater Limitations:

		Monthly Average
Constituent	<u>Units</u>	Concentration
Total Dissolved Solids	mg/L	2,000
Total Nitrogen	mg/L	750

D. Land Application Area Specifications

- 1. Wastewater shall only be used to irrigate the designated areas between 15 April and 15 October each year. Groundwater may be used for irrigation at any time as needed to sustain the crops.
- 2. Hydraulic loading of wastewater and supplemental fresh water to the land application areas shall be at rates designed to minimize percolation of waste constituents below the evaporative zone, except as needed to promote surface soil chemistry that is consistent with sustainable agricultural land uses.
- 3. Crops shall be grown on the land application areas. Crops shall be selected based on nutrient uptake capacity, tolerance of anticipated soil conditions, water needs, and evapotranspiration rates. All crops shall be grazed or they shall be harvested and removed from the irrigation areas at least once per year.

SACRAMENTO RENDERING COMPANIES RANCHO CORDOVA RENDERING PLANT

SACRAMENTO COUNTY

- 4. The maximum BOD₅ loading to each land application area irrigation check shall not exceed any of the following:
 - a. 200 lbs/acre on any single day;
 - b. 100 lbs/acre/day as a cycle average; and
 - c. The daily and cycle average loading rate that ensures compliance with Discharge Specifications B.2 and B.12 and the Groundwater Limitations.

Loading calculations shall be performed as specified in the attached Monitoring and Reporting Program No. ___, which is a part of this Order.

- 5. Effective **30 April 2008**, the total nitrogen loading to each land application area irrigation check shall not exceed the agronomic rate for plant available nitrogen (PAN) for the type of crop to be grown, as specified in the most recent edition of the Western Fertilizer Handbook. The method for determining PAN shall be approved by the Executive Officer based on a site-specific technical study to be completed by the Discharger.
- 6. The irrigation system shall be designed and managed to ensure even application of wastewater over each irrigation field.
- 7. Irrigation with wastewater shall not be performed within 24 hours before a predicted storm, during precipitation, or within 24 hours after the end of any precipitation event, nor shall it be performed when the ground is saturated.
- 8. There shall be no standing water in any portion of the irrigated fields more than 24 hours after application of wastewater ceases.
- 9. The Discharger may allow storm water runoff from the designated land application areas to be released into Frye Creek only when sufficient runoff has been captured and stored such that waste constituent concentrations in any runoff discharged to surface waters do not exceed those of runoff from adjacent pastureland not irrigated with wastewater.
- 10. Effective **30 April 2008**, the discharge shall not cause the buffering capacity of the soil profile to be exceeded nor shall it cause the soil to become reducing.
- 11. The Discharger shall provide and maintain the following setbacks for all wastewater land application areas:

Setback Definition	Surface Irrigation Setback (feet)
Edge of irrigated area ¹ to public property (e.g., street and Folsom South Canal)	10
Edge of irrigated area to other agricultural property	0
Edge of irrigated area/solids disposal area to occupied residence	50

Setback Definition	Surface Irrigation
	Setback (feet)

- 9. Application of process wastewater shall only occur where checks are graded to provide uniform water distribution, minimize ponding, and provide complete tailwater control.
- 10. Check runs shall be no longer, and slopes shall be no greater, than that which permits uniform infiltration and maximum practical irrigation efficiency.
- 11. Irrigation or impoundment of wastewater shall not occur within 50 feet of any domestic well unless it is demonstrated to the satisfaction of the Executive Officer that a shorter distance is justified.
- 12. Tailwater ponds and ditches shall be maintained essentially free of emergent, marginal, and floating vegetation.

E. Solids Disposal Requirements:

- 1. Collected screenings, sludge, and other solids generated at the processing facility shall be disposed of in a manner approved by the Executive Officer, and consistent with *Consolidated Regulations* for *Treatment, Storage, Processing, or Disposal of Solid Waste,* as set forth in Title 27, CCR, Division 2, Subdivision 1, Section 20005, et seq.
- 2. Any proposed change in solids use or disposal practice shall be reported to the Executive Officer at least 90 days in advance of the change.

F. Groundwater Limitations:

The discharge shall not cause underlying groundwater to contain any chemical constituent in concentrations greater than natural background water quality.

G. Provisions:

- 1. The following reports shall be submitted pursuant to Section 13267 of the California Water Code and shall be prepared as described in Provision G.2:
 - a. By **28 February 2006**, the Discharger shall submit a *Monitoring Well Installation Workplan*. The workplan shall describe the proposed installation of additional groundwater monitoring sufficient to completely characterize groundwater gradient and groundwater quality upgradient of the facility and downgradient of the wastewater ponds and land application areas. Monitoring wells shall be constructed to yield representative samples from the uppermost layer of the uppermost aquifer and to comply with applicable well standards. The workplan shall be consistent with, and include the items listed in, the first section of

As defined by the wetted area produced during irrigation.

Attachment E, which is attached hereto and made part of this Order by reference. It shall also include a preliminary identification and assessment of nearby water supply wells and their effects on groundwater elevations and gradients at the facility site.

- b. By **28 February 2006**, the Discharger shall submit a *Finger Lagoon Operation and Maintenance Plan* that describes in detail the proper operation of the finger lagoon wastewater treatment system and procedures and recommended frequency for pond cleaning to ensure optimal treatment of the wastewater. The Discharger shall immediately implement the plan.
- c. By **30 March 2006**, the Discharger shall submit a *Setback and Tailwater/Runoff Control Compliance Report* that demonstrates that all setbacks are met and all land application fields have fully functional tailwater/runoff control systems.
- d. By **30 September 2006**, the Discharger shall submit a *Monitoring Well Installation Report* that describes the installation of groundwater monitoring wells and contains the items found in the second and third sections of Attachment E.
- e. By **30 April 2008**, the Discharger shall fully comply with Land Application Area Specifications D.5 and D.10 and shall submit a report certifying compliance.
- f. By **30 August 2009**, the Discharger shall fully comply with Prohibition A.1 and shall submit a report certifying compliance.
- 2. All technical reports required herein that involve planning, investigation, evaluation, or design, or other work requiring interpretation and proper application of engineering or geological sciences, shall be prepared by, or under the direction of, persons registered to practice in California pursuant to California Business and Professions Code sections 6735, 7835, and 7835.1. To demonstrate compliance with section 415 and 3065 of Title 16, CCR, all technical reports, must contain a statement of the qualifications of the responsible registered professional(s). As required by these laws, completed technical reports must bear the signature(s) and seal(s) of the registered professional(s) in a manner such that all work can be clearly attributed to the professional responsible for the work.
- 3. The Discharger shall comply with Monitoring and Reporting Program No. ___, which is a part of this Order, and any revisions thereto as ordered by the Executive Officer.
- 4. The Discharger shall comply with the "Standard Provisions and Reporting Requirements for Waste Discharge Requirements", dated 1 March 1991, which are attached hereto and by reference a part of this Order. This attachment and its individual paragraphs are commonly referenced as "Standard Provision(s)."
- 5. At least 90 days prior to termination or expiration of any lease, contract, or agreement involving the land application areas that is used to justify the capacity authorized herein and assure compliance with this Order, the Discharger shall notify the Regional Board in writing of the

situation and of what measures have been taken or are being taken to assure full compliance with this Order.

- 6. The Discharger shall submit to the Regional Board on or before each compliance report due date the specified document, or if appropriate, a written report detailing compliance or noncompliance with the specific schedule date and task. If noncompliance is reported, then the Discharger shall state the reasons for noncompliance and shall provide a schedule to come into compliance.
- 7. The Discharger shall report promptly to the Regional Board any material change or proposed change in the character, location, or volume of the discharge.
- 8. In the event of any change in control or ownership of the facility or land application areas, the Discharger must notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to this office. To assume operation as Discharger under this Order, the succeeding owner or operator must apply in writing to the Executive Officer requesting transfer of the Order. The request must contain the requesting entity's full legal name, the state of incorporation if a corporation, the name and address and telephone number of the persons responsible for contact with the Regional Board, and a statement. The statement shall comply with the signatory paragraph of Standard Provision B.3 and state that the new owner or operator assumes full responsibility for compliance with this Order. Failure to submit the request shall be considered a discharge without requirements, a violation of the California Water Code. Transfer shall be approved or disapproved by the Executive Officer.
- 9. The Discharger shall comply with all conditions of this Order, including timely submittal of technical and monitoring reports as directed by the Executive Officer. Violations may result in enforcement action, including Regional Board or court orders requiring corrective action or imposing civil monetary liability, or in revision or rescission of this Order.
- 10. A copy of this Order shall be kept at the discharge facility for reference by operating personnel. Key operating personnel at the facility shall be familiar with its contents.
- 11. The Regional Board will review this Order periodically and will revise requirements when necessary.

I, THOMAS R. PINKOS, Executive Officer, do hereby certify the foregoing is a full, true, and correct
copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley
Region, on

THOMAS R. PINKOS, Executive Officer

ALO:11/10/2005